TEJUS
CONSULTANTS

Test Report on Cement

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	02.05.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	03.05.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	351 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	03.05.2019
Period of Soaking	24 hours	**Date of Testing**	03.05.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	679	638	668	
B	Weight of oven - dry sample gm.	669	628	658	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1702	1677	1695	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.655	2.661	2.653	**2.656**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.495	1.592	1.520	**1.536**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	**3000**	gms			
Type of Material	**Fine aggregate (River Sand/ M sand)**		**Proposed Use**	concrete	
Sample Location	At Site/Plant		**Date of Sampling**	03.05.2019	
			Date of Testing	03.05.2019	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	218	218	7.27	92.73	90 - 100
2.36 mm	310	528	17.60	82.40	75 - 100
1.18 mm	458	986	32.87	67.13	55 - 90
0.600 mm	474	1460	48.67	51.33	35 -59
0.300 mm	722	2182	72.73	27.27	8-30
0.150 mm	650	2832	94.40	5.60	0 - 10
Pan	168	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s KRIDL				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	Plant/At site		**Date of Sampling**	03.05.2019	
			Date of Testing	03.05.2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	282	282	2.82	97.18	**95 - 100**
10.00 mm	4872	5154	51.54	48.46	**25 - 55**
4.75 mm	4120	9274	92.74	7.26	**0 - 10**
Pan	726	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete
Sample Location	At Site/Plant	**Date of Sampling**	03.05.2019
		Date of Testing	03.05.2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	542	542	5.42	94.58	90-100
10.0	4664	5206	52.06	47.94	40-85
4.75	4548	9754	97.54	2.46	0-10
Pan	246	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	0.3.05.2019	10.05.2019	7 days	8.134	22500	284	12.62	12.55
2	0.3.05.2019	10.05.2019	7 days	8.132	22500	282	12.53	
3	0.3.05.2019	10.05.2019	7 days	8.138	22500	281	12.49	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to drains and footpath at Tatanagar from 5th cross to 7th cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	0.3.05.2019	31.05.2019	28days	8.140	22500	454	20.18	20.15
2	0.3.05.2019	31.05.2019	28days	8.138	22500	452	20.09	
3	0.3.05.2019	31.05.2019	28days	8.130	22500	454	20.18	

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